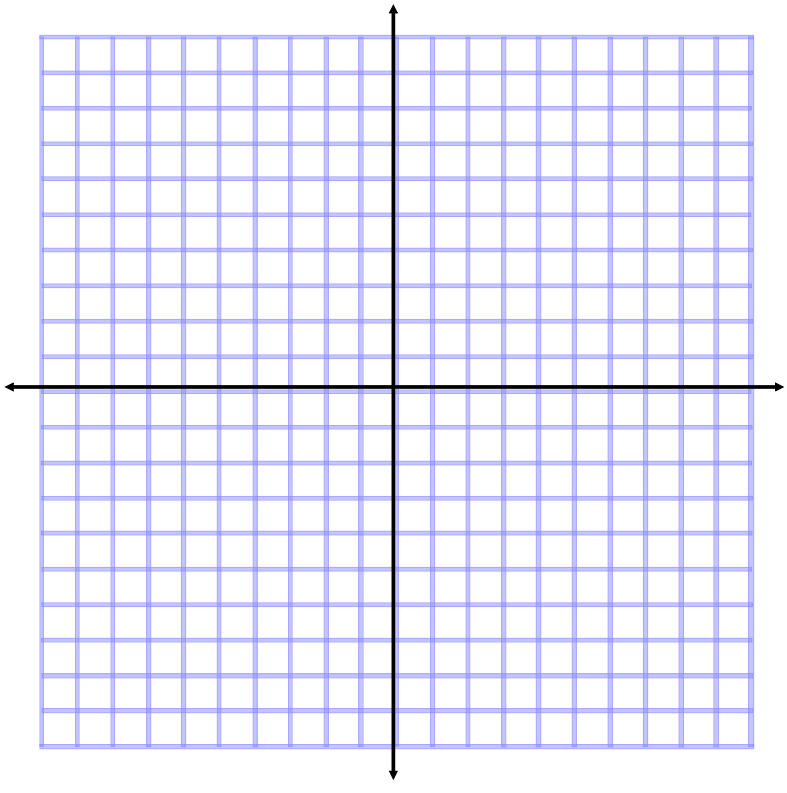
CSAP week!

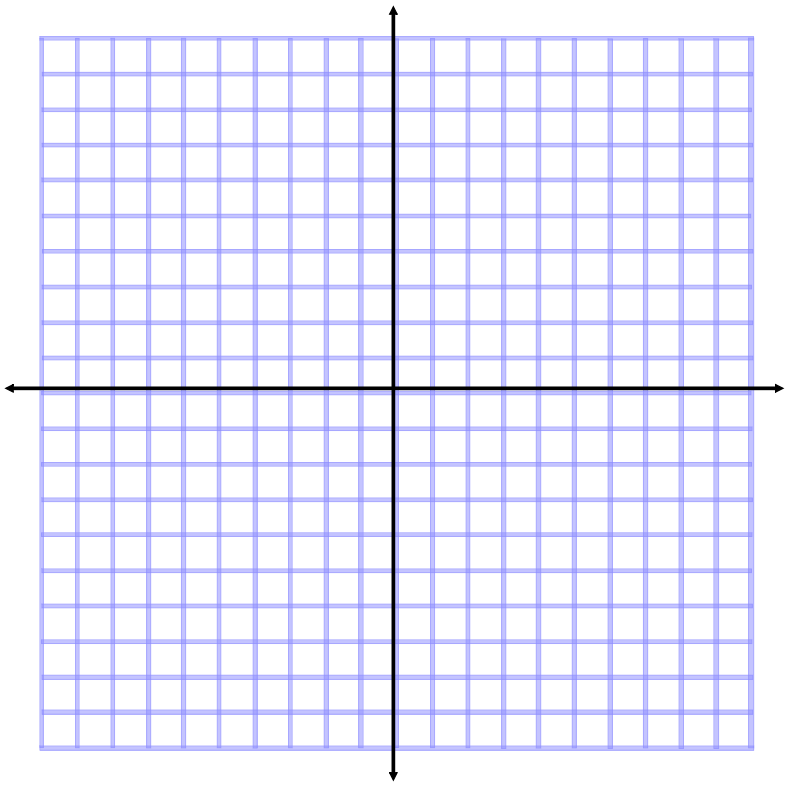
Graphing review

$y = \frac{1}{2}x - 3$



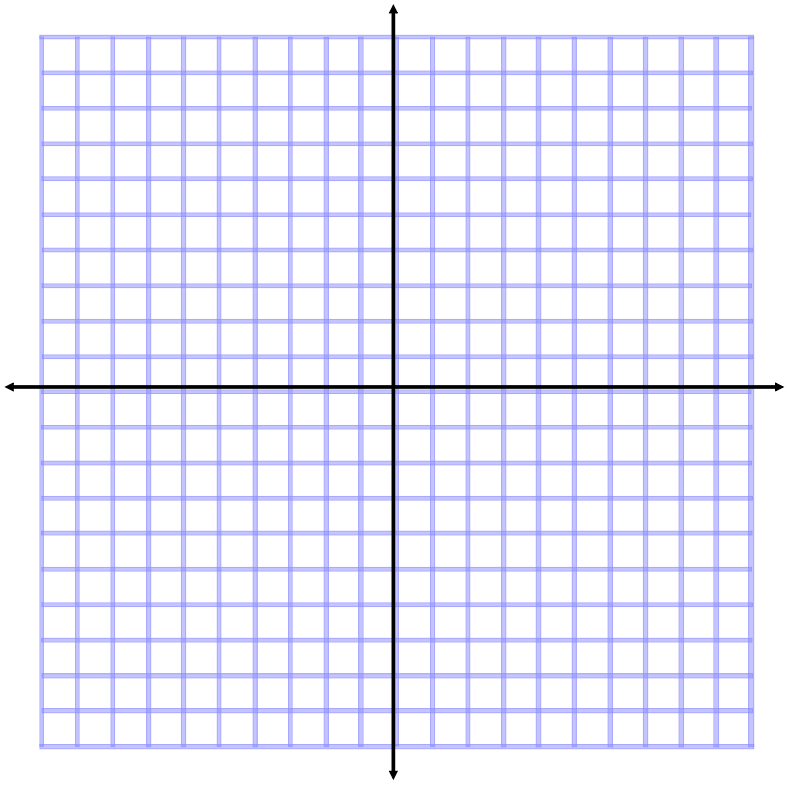
Graphing review

$y = 2x - 2$



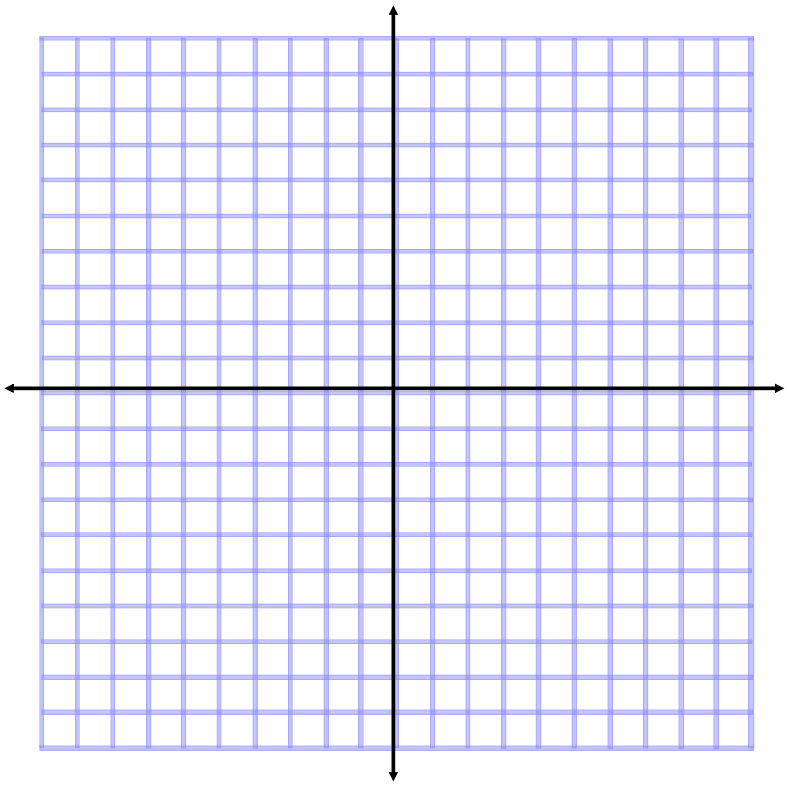
Graphing review

$y = \frac{1}{4}x$



Graphing review

y = -2

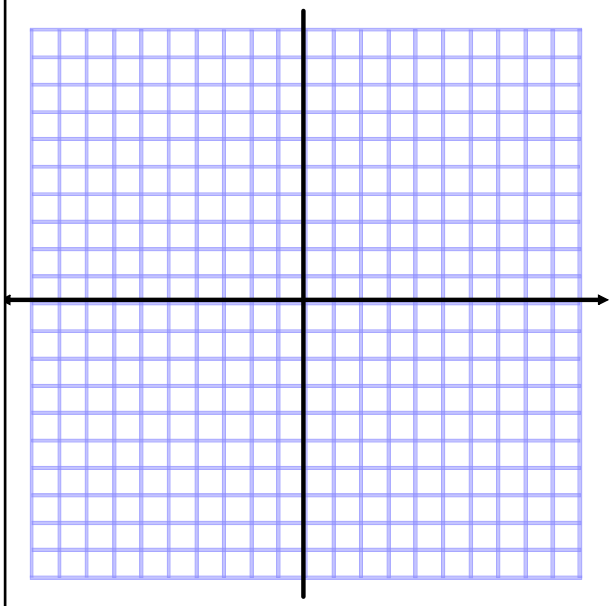


W2L:

Describe how to graph a line that is in slope-intercept form.

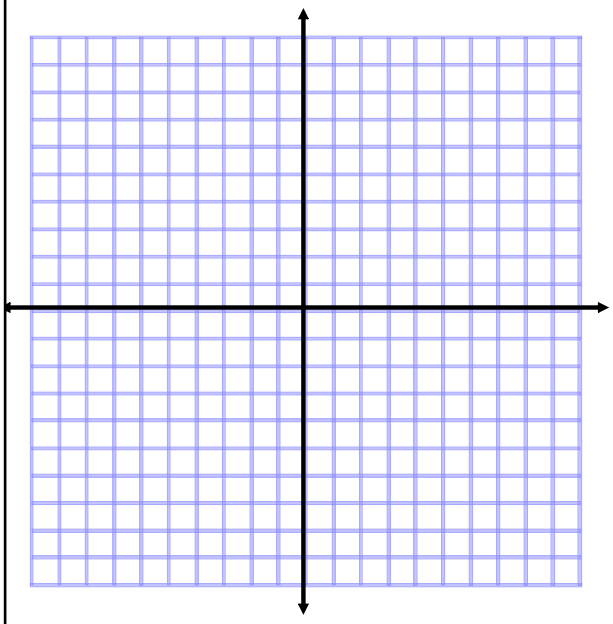
Graphing review

$$2x + 3y = 6$$



Graphing review

$$x - 2y = 10$$



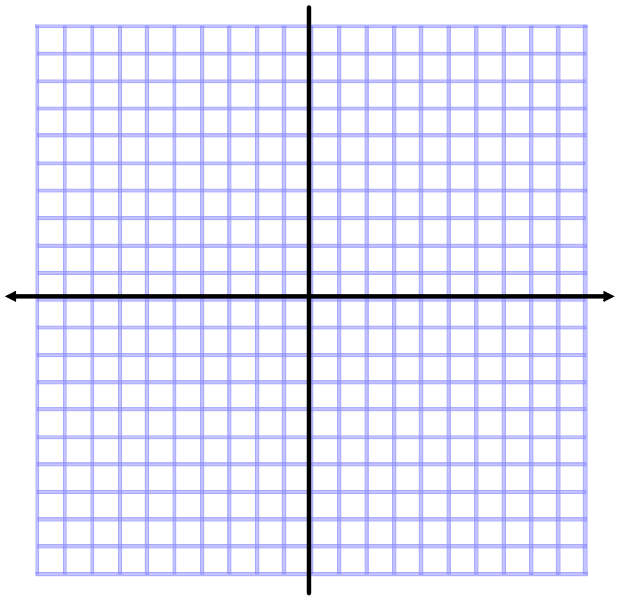
W2L:

Describe one way to graph a line that is NOT in slope-intercept form.

☺ Make a table for $y = x^2$, then graph.

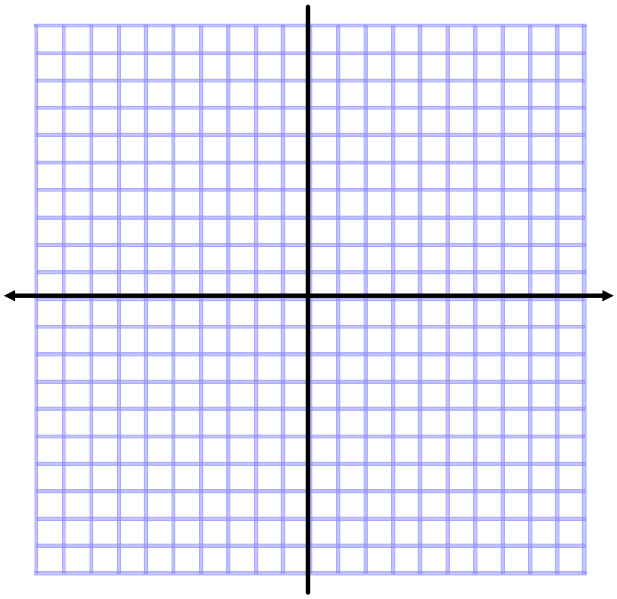
Do you remember the names for this type of equation?

x	$y = x^2$	y



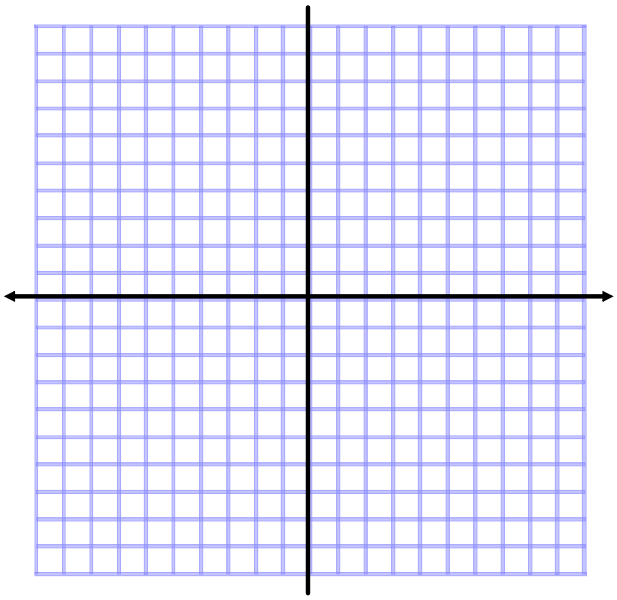
☺ Make a table for $y = 3x^2$, then graph.
What happens to the numbers in the table? The graph?

x	$y = 3x^2$	y



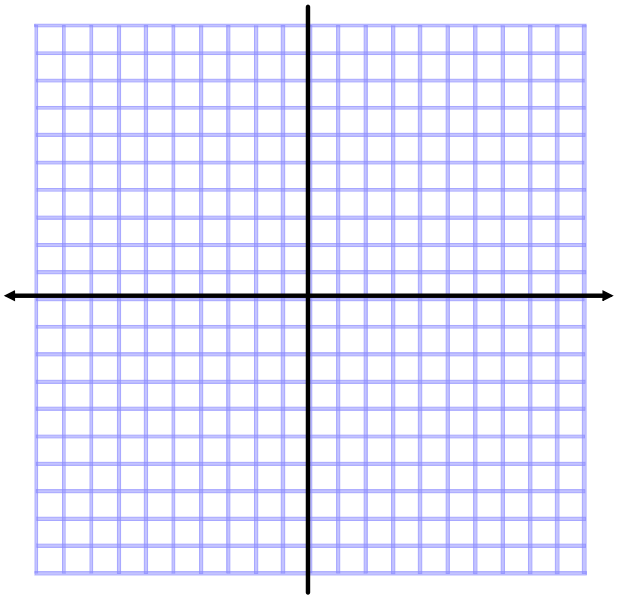
☺ Make a table for $y = 3x^2 + 1$, then graph.
What happens to the numbers in the table? The graph?

x	$y = 3x^2 + 1$	y



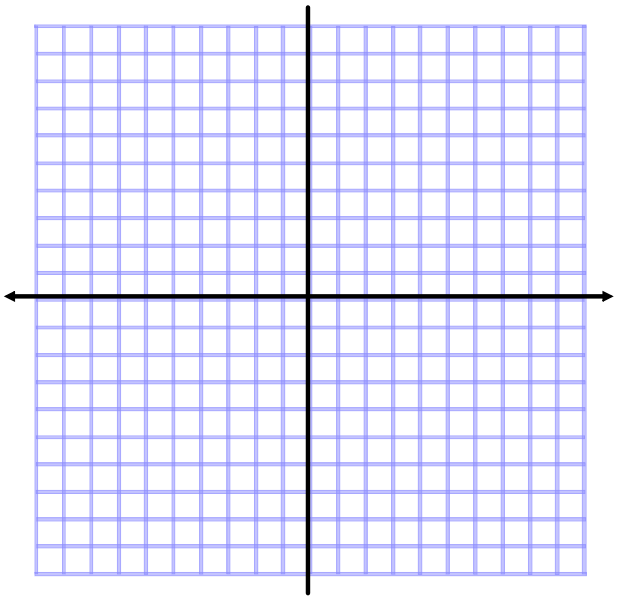
☺ Make a table for $y = -3x^2$, then graph.
What do you think will happen?

x	$y = -3x^2$	y

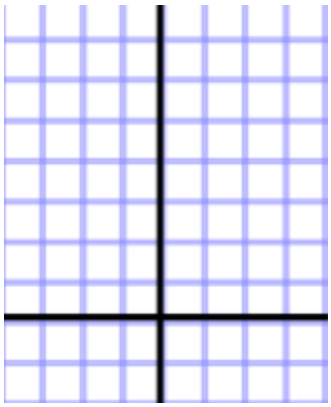


☺ Make a table for $y = 3x^2 - 4$, then graph.
What do you think will happen?

x	$y = 3x^2 - 4$	y



Consider the original function y = |x|



x	y = |x|	y

Describe what would happen...

- y = |x|+ 3
- y = -|x|
- y = 2|x|

Proportion Review

You go to Randi's for lunch with your friends and the total bill comes to $24.99. If you plan to tip 15%, how much tip do you leave?

What was your total bill?

Proportion Review

The sonar system of a submarine receives an echo back from a ship 5,000 yards away after 6.1 seconds. It picks up an echo from a second ship after 8.4 seconds. Which proportion could be used to find the distance of the second ship?

A. $\frac{6.1}{5000} = \frac{8.4}{x}$ B. $\frac{6.1}{8.4} = \frac{x}{5000}$

C. $\frac{8.4-6.1}{8.4} = \frac{x}{5000}$ D. $\frac{2.3}{5000} = \frac{6.1}{x}$

Why did you choose this answer? Explain your thinking.

Proportion Review

The ratio of men to women at a dance was 2 to 3. If there were 300 people at the dance, which of the following proportions could be used to find *M*, the number of men at the dance?

A. $\frac{2}{3} = \frac{M}{300}$ **B.** $\frac{2}{3} = \frac{300}{M}$

C. $\frac{2}{5} = \frac{M}{300}$ **D.** $\frac{2}{5} = \frac{300}{M}$

Proportion Review

☺ What is $\frac{3}{4}$ of $1\frac{1}{2}$?

Proportion Review

In one month, Melissa earned $40 for babysitting. The next month she earned $44. By what percent did her earnings increase? Explain your answer.

A. 9%
B. 10%
C. 91%
D. 110%

Proportion Review

For a sale, a shopkeeper lowered the original price of an item by 30 percent.

After the sale, the shopkeeper told his clerk, Mike, to raise the price of that item by 30 percent of its sale price. So Mike marked the item with its original price.

Was Mike right or wrong in doing that?

Present a convincing argument to support your answer. You need to include a simple, specific example as part of your argument.